

Pamela A. Shaw

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Research Interests

Covariate measurement error, statistical evaluation of diagnostic tests, design of medical studies, cancer epidemiology and screening

Education

University of Washington, Seattle, Washington, Ph.D., Biostatistics, 2006
University of Washington, Seattle, Washington, M.S., Mathematics, 1994
Grinnell College, Grinnell, Iowa, B.A., French and Mathematics, 1990

Professional Positions

Mathematical Statistician, October 2006–present National Institute of Allergy and Infectious Diseases National Institutes of Health, Bethesda, MD

Statistical Research Associate, October 2005–September 2006 Women's Health Initiative, Fred Hutchinson Cancer Research Center, Seattle, Washington

Research Assistant, January–October 2005, June 2002–June 2004 Biostatistics, Fred Hutchinson Cancer Research Center, Seattle, Washington

Teaching Assistant, Winter 2003, Summer–Fall 2004 Department of Biostatistics, University of Washington, Seattle, Washington

Research Assistant, June 2001–June 2002
EPA Northwest Center for Particulate Matter and Health
University of Washington, Seattle, Washington

Statistical Research Associate, December 1998–July 2001
Cancer Prevention Research Program and Southwest Oncology Group
Fred Hutchinson Cancer Research Center, Seattle, Washington

Research Consultant, September 1994–December 1998
Columbia Basin Research, University of Washington School of Fisheries
Seattle, Washington

Statistics Instructor, September 1994–March 1995
University of Washington Extension, Seattle, Washington

Research and Teaching Assistant, Autumn 1990–Spring 1994 Department of Mathematics, University of Washington, Seattle, Washington

Publications

Refereed Research Articles

Shaw P A, Pepe M S, Alonzo T A, Etzioni, R. Methods for Assessing Improvement in Specificity when a Biomarker is Combined with a Standard Screening Test. *Statistics of Biopharmaceutucial Research*, To appear 2008.

Neuhouser M L, Tinker L, **Shaw P A**, Schoeller D, Bingham S A, Van Horn L, Beresford S A, Caan B, Thomson C, Satterfield S, Kuller L, Heiss G, Smit E, Sarto G, Ockene J, Stefanick M L, Assaf A, Runswick S and Prentice RL. Use of recovery biomarkers to calibrate nutrient consumption self-reports in the Women's Health Initiative. *American Journal of Epidemiology*, To appear 2008.

Zonios D I, Falloon J, Bennett, J E, **Shaw P A**, Chaitt D, Baseler M W, Adelsberger J W, Metcalf J A, Polis M A, Kovacs S J, Kovacs J A, Davey R T, Lane H C, Masur H, and Sereti I. Idiopathic CD4+ lymphocytopenia: natural history and prognostic factors. *Blood*, To appear 2008.

Jewett M W, Lawrence K, Bestor A C, Tilly K, Grimm D, **Shaw P A**, VanRaden M, Gherardini F, Rosa P A. The critical role of linear plasmid lp36 in the infection cycle of borrelia burgdorferi. *Mol Microbiol* 2007 Jun; 64 (5):1358-74.

Etzioni R, Howlader N, **Shaw P A**, Ankerst D P, Penson D F, Goodman P J, Thompson I M. Long-term effects of finasteride on PSA Levels: results from the Prostate Cancer Prevention Trial. *Journal of Urology* 2005 Sep; 174(3):877–81

Shaw P A, Etzioni R, Zeliadt S, Mariotto A, Karnofski K, Penson D, Weiss N, Feuer E. Ecologic Study of PSA Screening and Prostate Cancer Mortality in Nine Geographic Areas of the US. *American Journal of Epidemiology* 2004; 160(11):1059–1069.

Etzioni R, Berry K M, Legler J M, **Shaw PA**. Prostate-specific antigen testing in black and white men: an analysis of Medicare claims from 1991-1998. *Urology* 2002 Feb; 59(2):251–5.

Zabel R, Anderson J, **Shaw P**. A multiple reach model to describe the migratory behavior of Snake River yearling chinook salmon. *Canadian Journal of Fisheries and Aquatic Sciences* 1998; 55(3):658–667.

Manuscripts in Preparation

Shaw P A, Prentice, R L. Estimation methods for Cox regression with non-classical measurement error.

Prentice R L, **Shaw P A**, Bingham S A, Beresford S A, Caan B, Neuhouser M L, Patterson R E, Stefanick M L, Satterfield S, Thomson C A, Snetselaar L, Thomas A, Tinker L F. Biomarker-Calibrated Energy and Protein Consumption and Increased Cancer Risk among Postmenopausal Women

Lumley T, **Shaw P A**. Design-based estimation for the Cox model with mismeasured covariates.

Maternal organochlorine concentrations and sex ratio of offspring. Jusko T A, **Shaw P A**, Greenfield T A, Hertz-Picciotto I.

Other non-Refereed Scholarly Publications

Anderson J, Hayes J, Shaw P, Zabel R. *Columbia River Salmon Passage Model. CRISP1.5 Theory, Calibration and Validation Manual*. Columbia Basin Research, Seattle, WA, 1996.

Shaw P. *Gas saturation and sensitivity using CRISP. Dissolved Gas Abatement Study Phase I*, Army Corps of Engineers Technical Report, Portland, Oregon, 1996.

Abstracts and Presentations

“Methods for Cox regression with non-classical measurement error in the covariates with an application to nutritional epidemiology “ P A Shaw, RL Prentice. Contributed presentation, Joint Statistical Meeting. Seattle, WA. Joint Statistical Meeting, Salt Lake City, UT. August 2007.

“Applications of Mathematics and Statistics in the Health Sciences” Invited Presentation, Rhodes College Math Department, Memphis, TN. March 2007.

“On estimating the relationship between diet and disease”, Invited Presentation for Women in Math and Science Panel, University of Memphis Center for Research on Women, Memphis, TN. March 2007.

“Design-Based Calibration Estimators for Measurement Error in the Cox Model.” Lumley T, Shaw P A. Joint Statistical Meeting. Seattle, WA. August 2006.

“Estimation methods for Cox regression with non-classical measurement error” Shaw P A, Prentice, R L. Contributed presentation, International Biometric Society, Eastern North American Region (ENAR) Annual Meeting. Tampa, Florida. March 2006.

“Maternal organochlorine concentrations and sex ratio of offspring.” Jusko T A, Shaw P A, Greenfield T A, Hertz-Picciotto I. 2005 International Neurotoxicology Conference Environment and Neurodevelopmental Disorders, NeuroToxicology 2006; 27(2–3).

“Evaluating diagnostic accuracy of a combination test when disease status is verified only on positive screeners.” Contributed presentation, International Biometric Society, Western North American Region (WNAR) Annual Meeting. Fairbanks, Alaska. June 2005.

“Ecologic Study of PSA Screening and Prostate Cancer Mortality in Nine Geographic Areas of the US.” Contributed presentation, Western North American Region (WNAR), International Biometric Society Annual Meeting. Albuquerque, New Mexico. June 2004.

“The Web-based management of the Selenium and Vitamin E Cancer Prevention Trial” Shaw P A, Goodman P J, Brace J. The 22nd Annual Meeting of the Society for Clinical Trials. Denver, CO. May 2001

“The design of the Selenium and Vitamin E Chemoprevention Trial (SELECT).” Contributed presentation, The 21st Annual Meeting of the Society for Clinical Trials. Toronto, Canada. April 2000.

“Serial PSA screening for prostate cancer: a computer model evaluates competing strategies.” Contributed Presentation, American Urological Association Annual Meeting, Dallas, Texas. May 1999.

“Temperature analysis tools at Columbia Basin Research.” Contributed presentation, Columbia/Snake River Mainstem Water EPA Temperature Workshop. Portland, Oregon. November 1997.

“Modeling total dissolved gas and its effects on salmon.” Contributed presentation, 16th Annual North American Resource Modeling Association Meeting. Seattle, Washington. June 1997.

Academic Awards and Honors

- Senior Student Award, Department of Biostatistics, University of Washington, 2006
- Student Poster Award, Department of Biostatistics, University of Washington, 2004
- National Institutes of Health Cancer Epidemiology and Biostatistics Trainee, 2001–2006
- Phi Beta Kappa
- Graduation with Honors, French and Mathematics, Grinnell College
- Grinnell College Trustee Merit Scholarship

Professional Memberships

- American Statistical Association
- International Biometric Society